

L.A.D. & Smt. R.P. College for Women, Nagpur

FACULTY PROFILE

❖ Basic Information

- **Name:** Dr. Charita Bhushan Patil
- **Designation:** Professor & Head
- **Department:** Chemistry
- **Area of Specialization:** Organic Chemistry
- **VIDWAN ID-** 687338
- **ORCID ID** – 0009-0003 – 9065 - 7400
- **Google Scholar ID-** 1771581193170



❖ Educational Qualifications: M.Sc., B.Ed., Ph.D.

❖ Teaching Experience:

- Total Teaching Experience: 22 Years

❖ Research Experience

- Total Research Experience: 22 Years
Research Guidance : Mentor / Supervisor for DST Project (Department of Science and Technology) under Women Scientist scheme – 2017-2020 Title “Eco-friendly and economical Orange peel mosquito repellents “amount Rs. 32, 10, 697/-
- Areas of Research Interest: Organic Chemistry, Cosmetic Chemistry, Environmental Chemistry

❖ Research Publications

(A) Research Papers in National/ International Journals

- Paper Publication in online Journal "KNOWLEDGE RESONANCE" titled "ROBIN COOK'S COMA – THE STUDY" Online Journal KNOWLEDGE RESONANCE, Jan - June 2020
<http://knowledgeresonance.com/wp-content/uploads/2021/01/202011.pdf>
- Paper Publication in Online Journal "IJRASET" titled "Green Chemistry and Microscale Technique: A Move Towards Environment Friendly Approach". Online Journal IJRASET, JAN. 2020 (ID No.: IJRASET26457), <https://www.ijraset.com/fileserve.php?FID=26457>

- Paper Publication in Online Journal "Research Journey" titled "Best Out of Waste: Multifunctional Ingredient in Cosmetics" (UGC Approved, Indexed, Peer Reviewed,) Online Journal Research Journey Feb. 2019 (Check on special issues 110 D, Page 6, SR NO 51 <https://www.researchjourney.net/special-issues>)
- Paper Publication in Online Journal "IJCESR" titled "Multifunctional material from waste" (VOLUME-6, ISSUE-1,) Online Journal IJCESR, Feb. 2019. <http://troindia.in/journal/ijcesr/vol6iss1part3/112-115.pdf>
- Paper Publication in Online Journal "IJRAR" titled "Mosquito borne diseases: Threat for Women Health in Pregnancy" Online Journal IJRAR, Dec. 2018. http://ijrar.org/viewfull.php?&p_id=IJRAR190J040
- Paper Publication in Online Journal "AIIRJ" titled "Ecofriendly mosquito repellent: Recent trend in Environmental science" Online Journal AIIRJ, Mar. 2018 [https://www.aiirjournal.com/uploads/Articles/152562459004.INTERNATIONAL%20CONFERENCE%20ON%20RECENT%20TRENDS%20IN%20SCIENCE%20AND%20TECHNOLOGY%2022ND%20AND%2023%20RD%20MARCH%202018%20\(Part%204-%20Humanities\)1.pdf](https://www.aiirjournal.com/uploads/Articles/152562459004.INTERNATIONAL%20CONFERENCE%20ON%20RECENT%20TRENDS%20IN%20SCIENCE%20AND%20TECHNOLOGY%2022ND%20AND%2023%20RD%20MARCH%202018%20(Part%204-%20Humanities)1.pdf)
- Paper Publication in Online Journal "IJRITCC" titled "Synthesis of (e)-1-(5-chloro-2-hydroxy -4-methylphenyl)-3-(4-bromophenyl)prop-2-en-1-one and 4-chloro - 5-methyl-2-(5-(4-bromophenyl) - 4,5-dihydro-1H-pyrazol-3-yl)phenol and its derivatives" Online Journal IJRITCC, Oct. 2015 <https://ijritcc.org/index.php/ijritcc/article/view/4920>
- Paper Publication in Online Journal "JMCDD" titled "Design, Synthesis and Antimicrobial Evaluation of Xanthone Nucleus Unified with Thiadiazoles Schiff's Base Scaffolds" Online Journal JMCDD Aug.2015" http://www.jmcdd.com/paperupload/PU_1438616119.pdf
- Paper Publication in Online Journal "IJRITCC" titled "Synthesis of (E)-1-(5-chloro-2-hydroxy-4-methylphenyl)-3-(4-nitrophenyl)prop-2-en-1-one and 4-chloro-5-methyl-2-(5-(4-nitrophenyl)-4,5- dihydro-1h-pyrazol-3-yl) phenol and its derivatives". Online Journal IJRITCC, MAY.2015 http://www.ijritcc.org/download/1445237442_19-10-2015.pdf
- Paper Publication in Online Journal "IJRBAT" titled "Retrosynthesis Favours e-Chemistry". Online Journal IJRBAT, JAN. 2014 http://www.ijrbat.in/?url=abstract_view&title=RETROSYNTHESIS%20FAVOURS%20e-CHEMISTRY&paper=153
- Paper Publication in Online Journal "JMCDD" titled "QSTR and POM Studies of Propionic Acid Derivatives as Non-Steroidal Anti Inflammatory Drugs" Online Journal JMCDD, Apr. 2013 https://www.researchgate.net/publication/236657450_QSTR_and_POM_Studies_of_Propionic

Acid Derivatives as Non Steroidal Anti Inflammatory Drugs

B) Books / Book Chapters

Edited-

- Book published for B.Sc. as per NEP syllabus by Alliance & Co, (National) Title “Food Adulteration”, ISBN: 978-81-975702-0-9.
- Book published for B.Sc. as per NEP syllabus by Alliance & Co, (National) Title “Cosmetic Chemistry”, ISBN: 978-93-48359-93-3.
- Book published for B.Sc. as per NEP syllabus by Alliance & Co, (National) Title “Kitchen and Nutrition Chemistry”, ISBN: 978-93-48 35-95-13.
- Book published for B.Sc. as per NEP syllabus by Alliance & Co, (National) Title “Basics of Environmental Pollution”, ISBN: 978-93-48359-62-9.
- Book published for B.Sc. as per NEP syllabus by Alliance & Co, (National) Title “Chemistry in everyday Life”, ISBN-978-93-48359-64-3.
- Book published for B. Sc. Semester- I (Major) & B. Sc. Semester- III (Minor) as per NEP syllabus by Alliance & Co, (National) Title “Organic Chemistry”, ISBN-978-93-48359-83-4
- Book published for B. Sc. Semester- II as per NEP syllabus by Alliance & Co, (National) Title “Organic Chemistry”, ISBN- 978-93-48359-72-8.

C. Conference / Seminar Proceedings

- Qsar analysis of anti-malarial activity of synthetic oligo – pyrrole derivatives against multi drug Resistant strain of plasmodium falciparum- NCCTCR AURANGABAD - page no 7 – 13, ISBN: 978-81- 921647-1-7
- Identification of anti-bacterial and antifungal pharmacophore sites for potent bacteria and fungi Inhibition: POM theoretical calculations of benzimidazole derived cu (ii) complex - NCCTCR AURANGABAD - page no 4 – 6, ISBN: 978-81-921647-1-7
- Combining molecular docking and POM approaches for anti-inflammatory activity of some novel Quinazoline derivatives - NCCTCR AURANGABAD - page no 1 – 3, ISBN: 978-81-921647-1-7,

❖ Research Projects

a. Minor/ Major Research Projects:

S.N	Title	Funding Agency:	Year	Amount Sanctioned
1	Synthesis of new Pyrazolines and substituted Pyrazolines from new chalcones.	UGC-2013-2015	2 Yrs.	Rs. 77,000/-
2	“Eco-friendly and economical Orange peel mosquito repellents”	DST (Department of Science and Technology) under Women Scientist – 2017-2020	3 Yrs.	Rs. 32,10, 697/-

❖ Orientation / Refresher Courses / FDPs Attended

- U.G.C. Sponsored Orientation Course from 02/07/2008 TO 29/07/2008 at Academic Staff College, R.T.M. Nagpur University, Nagpur.
- U.G.C. Sponsored Refresher Course from 15/11/2010 to 04/12/2010 at Academic Staff College, SGB Amravati University Amravati.
- One Week Short Term Course from 27/01/2016 to 31/01/2016 at VNIT Nagpur.
- U.G.C. Sponsored One Week Short Term Course from 21/11/2016 to 26/11/2016 at HRDC, SGB Amravati University Amravati.
- Coordinator of Five Day FDP on ‘Student Centric Methodology and Interactive Teaching Strategies using Technological Tools’ from 9th to 13th October, 2023 organized by L.A.D. & Smt.R. P. College for Women, Nagpur under the aegis of Internal Quality Assurance Cell.
- Completed Five Day International Faculty Development Programme on ‘AI in Research and Innovation’ from 18 to 22 August, 2025 at L.A.D. & Smt. R. P. College for Women, Nagpur under the aegis of the Internal Quality Assurance Cell (IQAC) aiming to integrate Artificial Intelligence in academic research and innovation.
- Completed ‘NEP- 2020 Orientation and Sensitization Programme’ under Malviya Mission

Teacher Training Programme (MM-TTP) of UGC organized by UGC-MMTTC, RTMNU, Nagpur from 16 to 30 March, 2025.

❖ Papers Presented in Conferences / Seminars

- Poster presentation on Topic "Rediscovering Ganesha" National Conference – ECOMAT, 28 Sept. to 29 Sept. 2013.
- Poster presentation on Topic "Green chemistry", AAMSD, 17 Jan. to 18 Jan. 2014.
- Poster presentation on Topic "Design, synthesis and topological data of novel heterocyclic ring". Systems consisting of substituted thiadiazole & xanthone rings" - PAGE NO 183, ICFM 2015, RTMNU, 5, 6, 7 Feb. 2015.
- Oral presentation on "Recent trends in green chemistry" one day state level seminar paper, Dept. of Chemistry, Hutatma Rajguru College, Rajgurunagar, Pune – Aug. 2016.
- Poster presentation on Topic "Green Chemistry in Mosquito Repellency", National Conference "Recent Advances in Chemical Sciences" Department of Chemistry Shri Shivaji Science College Akola, 26th-27th Feb. 2018.
- Poster presentation on Topic "Ecofriendly: Recent trends in Mosquito Repellency" "Indian heritage in Chemistry – National Conference, IHC 2018, PG and Research Dept. of chemistry Hislop College Nagpur And IGNOU Regional center Nagpur, 27th March 2018.
- Poster presentation titled "Multifunctional material from waste" in international conference on Multifunctional advanced materials, ICMAM 2018, Kamla Nehru Mahavidyalaya Nagpur and Dharampeth M. P. Deo memorial science College Nagpur, Oct. 2018.
- Poster presentation titled " Mosquito born Disease: threat for women health in pregnancy" (Won 1st Prize), International Conference, Dhote Bandhu Science College Gondia, Nov. 2018.
- Article in National Aqua Conference on water conservation titled "Role of educator's stagnant water Breeding site for mosquitoes" LAD College for Women Shankarnagar Nagpur, Dec. 2018.

- Poster and Oral Presentation on Best out of Waste: Multifunctional Ingredients in Cosmetics at National Conference organized by Vidya Bharti Mahavidyalaya, Amravati on 1st and 2nd April Feb. 2019.
- Poster presentation titled “Ecofriendly hair colour: a sustainable need of hour”, International Conference ICAFM – 2026, Feb. 6th & 7th, 2026.

❖ **Workshops / Seminars / Conferences Organized**

- Organized Two Day State Level Workshop on title “Microscale techniques in Organic and Inorganic Chemistry” at Dept. of Chemistry L.A.D. & Smt. R. P. College for Women, Nagpur in 2005.
- Organized Two Day State Level Workshop on title “Microscale techniques in Physical chemistry” at Dept. of Chemistry L.A.D. & Smt. R. P. College for Women, Nagpur in 2012.
- Organized One Day Workshop on title “Syllabus Discussion of new B.Sc. syllabus (Semester Pattern)” in Collaboration with Chemistry Teachers Association, RTMNU, Nagpur at Dept. of Chemistry L.A.D. & Smt. R.P. College for Women, Nagpur in 2012.

❖ **Administrative Responsibilities**

- Head of Chemistry Department.
- IQAC Core Committee Member.
- College Development Committee- Staff Representative.
- Convener of Examination committee.
- Convener of Time Table committee.
- Convener of Stock Verification committee.
- Convener of Mentorship committee.
- Convener of Parent Teacher committee.
- Member of internal complaint committee.
- Member of Student Quality Assurance Cell.

❖ **Membership of Professional Bodies**

- Member of Chemistry Teachers Association, RTM Nagpur University.
- Member of RTMNU - NUTA.
- Life member of Vigyan Bharti, Vidarbha Pradesh Mandal, (VIBHA) dated: 03-02-2025
- Member of RTMNU, Vidyapeeth Shikshan Manch, Nagpur

❖ Awards / Recognitions

- **Won 1st Prize** in Poster presentation titled " Mosquito born Disease: threat for women Health in pregnancy", International Conference, Dhote Bandhu Science College Gondia, Nov. 2018.
- **Won 2nd Prize** Poster presentation on Topic "Ecofriendly: Recent trends in Mosquito Repellency" "Indian heritage in Chemistry – National Conference, IHC 2018, PG and Research Dept. of chemistry Hislop College Nagpur and IGNOU Regional center Nagpur, 27th March 2018.
- **Won 1st Prize** in Poster and Oral Presentation on Best out of Waste: Multifunctional Ingredients in Cosmetics at National Conference organized by Vidya Bharti Mahavidyalaya, Amravati on 1st and 2nd April Feb 2019.

❖ Extension Activities / Community Engagement

- Appointed as Judge for inter collegiate Power Point presentation competition held at Dharampeth Science College, Nagpur in March 2024.
- Appointed as Judge for inter collegiate Power Point presentation competition held at Dharampeth Science College, Nagpur in Feb. 2025.
- Appointed as Judge for Scientific rangoli competition on occasion of National Science Day held at Dharampeth Science College, Nagpur in Feb. 2026.

❖ Other Relevant Information

- Appointed as member of selection committee for the post of Assistant Professor (CHB) interview at Dharampeth Science College, Nagpur on June 2023.
- Appointed as member of selection committee for the post of Assistant Professor (CHB) interview at Dharampeth Science College, Nagpur on June 2024.
- Appointed by RTMNU Nagpur as a subject expert for the promotion under CAS as Professor at

Sindhu Mahavidyalaya, Nagpur in June 2025.

- Appointed by RTMNU Nagpur as a subject expert for the promotion under CAS as Associate Professor under CAS at Dr. R. J. Bhojar Arts Science Commerce College, Selu, Wardha in Sept. 2025.
- Appointed by RTMNU Nagpur as a subject expert for the promotion under CAS as Professor at Hislop College, Nagpur in Jan. 2025.
- Coordinator and Convenor of Skill development Workshops and programmes organized under the aegis of Chemical Society **Spectrum** such as Chem –Draw software workshop, Floor Cleaner Workshop, Hand Sanitizer workshop, Scintilla magazine, Educational visits to FDA Nagpur, Raman Science center Nagpur and Dinshaw's factory visit etc.